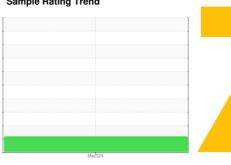


# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

Sample Rating Trend

limit/base







history1

947754 Component Hydraulic System

**R&O OIL ISO 32 (--- GAL)** 

### DIAGNOSIS

Machine Id

### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for requested laboratory data for water content.

All component wear rates are normal.

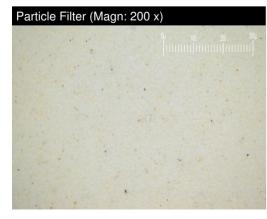
### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

### **Fluid Condition**

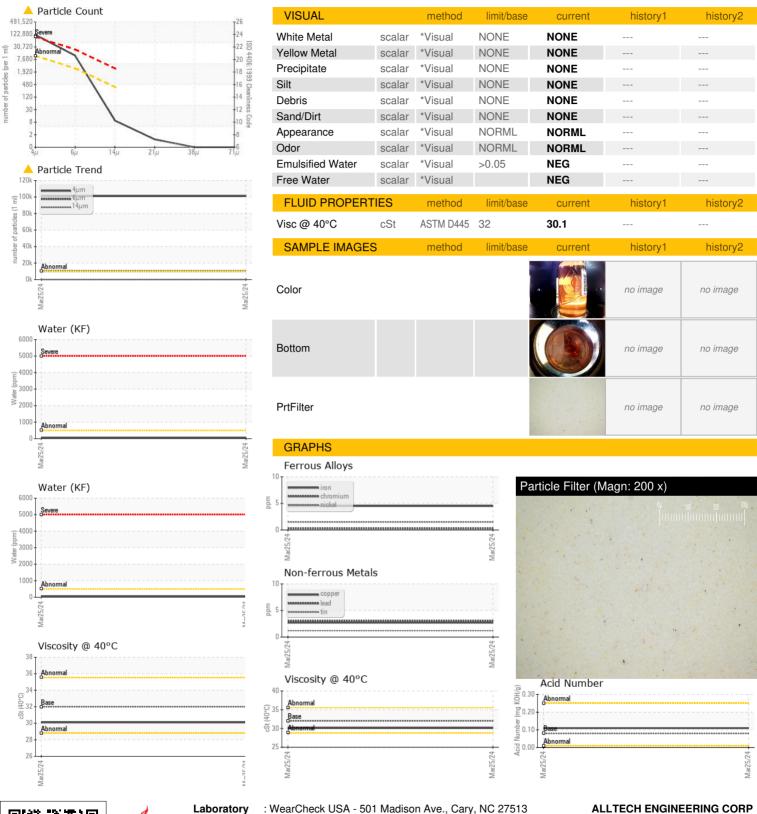
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number		Client Info		PH0000322		
Sample Date		Client Info		25 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Filtered		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>20	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>20	3		
Copper	ppm	ASTM D5185m	>20	3		
Tin	ppm	ASTM D5185m	>20	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium		ASTM D5185m	5	<1		
Calcium	ppm	ASTM D5185m		7		
Phosphorus	ppm	ASTM D5185m	100	10		
Zinc	ppm	ASTM D5185m	25	11		
Sulfur	ppm	ASTM D5185m	1500	1709		
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>15	1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m		2		
Water	%	ASTM D6304	>0.05	0.005		
ppm Water	ppm	ASTM D6304	>500	54		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>		
Particles >6μm		ASTM D7647	>2500	<u> </u>		
Particles >14µm		ASTM D7647	>320	8		
Particles >21µm		ASTM D7647	>80	1		
Particles >38μm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>4</u> 24/21/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.11		





## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

Laboratory

: PH0000322 Lab Number : 06135610

**Tested** Unique Number : 10955075 Diagnosed Test Package : PLANT ( Additional Tests: KF, PrtFilter )

Received

: 01 Apr 2024

: 10 Apr 2024

: 10 Apr 2024 - Doug Bogart

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

2515 PILOT KNOB RD MENDOTA HEIGHTS, MN US 55120

Contact: JAKE ANDERSON janderson@alltechengineering.com T: (715)607-0738

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: ALLMEN [WUSCAR] 06135610 (Generated: 04/10/2024 12:28:21) Rev: 2

Contact/Location: JAKE ANDERSON - ALLMEN